# RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 08/444,791A
Source: 1FW16
Date Processed by STIC: 3/22/05

# *ENTERED*

IFW16

**RAW SEQUENCE LISTING** DATE: 03/22/2005
PATENT APPLICATION: **US/08/444,791A** TIME: 11:53:10

Input Set : **A:\40451C.txt**
Output Set: **N:\CRF4\03222005\H444791A.raw**

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 3 <110> APPLICANT: Brockhaus, et al.
 5 <120> TITLE OF INVENTION: Human TNF Receptor
 7 <130> FILE REFERENCE: 01017/40451C
 9 <140> CURRENT APPLICATION NUMBER: US 08/444,791A
10 <141> CURRENT FILING DATE: 1995-05-19
12 <160> NUMBER OF SEQ ID NOS: 26
14 <170> SOFTWARE: PatentIn version 3.3
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 2111
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
21 <400> SEQUENCE: 1
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24 ccctcaactg tcaccccaag gcacttggga cgtcctggac agaccgagtc ccgggaagcc    120
26 ccagcactgc cgctgccaca ctgccctgag cccaaatggg ggagtgagag gccatagctg    180
28 tctggcatgg gcctctccac cgtgcctgac ctgctgctgc cgctggtgct cctggagctg    240
30 ttggtgggaa tatacccctc aggggttatt ggactggtcc ctcacctagg ggacagggag    300
32 aagagagata gtgtgtgtcc ccaaggaaaa tatatccacc ctcaaaataa ttcgatttgc    360
34 tgtaccaagt gccacaaagg aacctacttg tacaatgact gtccaggccc ggggcaggat    420
36 acggactgca gggagtgtga gagcggctcc ttcaccgctt cagaaaacca cctcagacac    480
38 tgcctcagct gctccaaatg ccgaaaggaa atgggtcagg tggagatctc ttcttgcaca    540
40 gtggaccggg acaccgtgtg tggctgcagg aagaaccagt accggcatta ttggagtgaa    600
42 aacctttcc agtgcttcaa ttgcagcctc tgcctcaatg ggaccgtgca cctctcctgc    660
44 caggagaaac agaacaccgt gtgcacctgc catgcaggtt tctttctaag agaaaacgag    720
46 tgtgtctcct gtagtaactg taagaaaagc ctggagtgca cgaagttgtg cctaccccag    780
48 attgagaatg ttaagggcac tgaggactca ggcaccacag tgctgttgcc cctggtcatt    840
50 ttctttggtc tttgcctttt atccctcctc ttcattggtt taatgtatcg ctaccaacgg    900
52 tggaagtcca agctctactc cattgtttgt gggaaatcga cacctgaaaa agaggggggag   960
54 cttgaaggaa ctactactaa gcccctggcc ccaaacccaa gcttcagtcc cactccaggc   1020
56 ttcaccccca ccctgggctt cagtcccgtg cccagttcca ccttcacctc cagctccacc   1080
58 tatacccccg gtgactgtcc caactttgcg gctccccgca gagaggtggc accaccctat   1140
60 caggggggctg accccatcct tgcgacagcc ctcgcctccg accccatccc caacccccctt  1200
62 cagaagtggg aggacagcgc ccacaagcca cagagcctag acactgatga ccccgcgacg   1260
64 ctgtacgccg tggtggagaa cgtgcccccg ttgcgctgga aggaattcgt gcggcgccta   1320
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68 gcgcaataca gcatgctggc gacctggagg cggcgcacgc cgcggcgcga ggccacgctg   1440
70 gagctgctgg gacgcgtgct ccgcgacatg gacctgctgg gctgcctgga ggacatcgag   1500
72 gaggcgcttt gcggccccgc cgccctcccg cccgcgccca gtcttctcag atgaggctgc   1560
74 gcccctgcgg gcagctctaa ggaccgtcct gcgagatcgc cttccaaccc cacttttttc   1620
76 tggaaaggag gggtcctgca ggggcaagca ggagctagca gccgcctact tggtgctaac   1680
78 ccctcgatgt acatagcttt tctcagctgc ctgcgcgccg ccgacagtca gcgctgtgcg   1740
80 cgcggagaga ggtgcgccgt gggctcaaga gcctgagtgg gtggtttgcg aggatgaggg   1800
82 acgctatgcc tcatgcccgt tttgggtgtc ctcaccagca aggctgctcg ggggcccctg   1860
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**RAW SEQUENCE LISTING** DATE: 03/22/2005
PATENT APPLICATION: **US/08/444,791A** TIME: 11:53:10

Input Set : **A:\40451C.txt**
Output Set: **N:\CRF4\03222005\H444791A.raw**

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84 gttcgtccct gagccttttt cacagtgcat aagcagtttt ttttgttttt gttttgtttt   1920
86 gttttgtttt taaatcaatc atgttacact aatagaaact tggcactcct gtgccctctg   1980
88 cctggacaag cacatagcaa gctgaactgt cctaaggcag gggcgagcac ggaacaatgg   2040
90 ggccttcagc tggagctgtg gacttttgta catacactaa aattctgaag ttaaaaaaaa   2100
92 aacccgaatt c                                                      2111
95 <210> SEQ ID NO: 2
96 <211> LENGTH: 455
97 <212> TYPE: PRT
98 <213> ORGANISM: Homo sapiens
100 <400> SEQUENCE: 2
102 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
103 1               5                  10                  15
106 Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
107             20                  25                  30
110 His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
111         35                  40                  45
114 Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
115     50                  55                  60
118 Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
119 65                  70                  75                  80
122 Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
123                 85                  90                  95
126 Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val
127             100                 105                 110
130 Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg
131         115                 120                 125
134 Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe
135     130                 135                 140
138 Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
139 145                 150                 155                 160
142 Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu
143                 165                 170                 175
146 Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr
147             180                 185                 190
150 Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser
151         195                 200                 205
154 Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu
155     210                 215                 220
158 Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
159 225                 230                 235                 240
162 Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu
163                 245                 250                 255
166 Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser
167             260                 265                 270
170 Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val
171         275                 280                 285
174 Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys
175     290                 295                 300
178 Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly
```

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179 305                 310                 315                 320
182 Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn
183                 325                 330                 335
186 Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp
187             340                 345                 350
190 Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro
191         355                 360                 365
194 Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
195     370                 375                 380
198 Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
199 385                 390                 395                 400
202 Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
203                 405                 410                 415
206 Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
207             420                 425                 430
210 Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
211         435                 440                 445
214 Pro Ala Pro Ser Leu Leu Arg
215     450                 455
218 <210> SEQ ID NO: 3
219 <211> LENGTH: 2339
220 <212> TYPE: DNA
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 3
224 tcggacaccg tgtgtgactc ctgtgaggac agcacataca cccagctctg gaactgggtt     60
226 cccgagtgct tgagctgtgg ctcccgctgt agctctgacc aggtggaaac tcaagcctgc    120
228 actcgggaac agaaccgcat ctgcacctgc aggcccggct ggtactgcgc gctgagcaag    180
230 caggaggggt gccggctgtg cgcgccgctg ccgaagtgcc gcccgggctt cggcgtggcc    240
232 agaccaggaa ctgaaacatc agacgtggtg tgcaagccct gtgccccggg gacgttctcc    300
234 aacacgactt catccacgga tatttgcagg ccccaccaga tctgtaacgt ggtggccatc    360
236 cctgggaatg caagcaggga tgcagtctgc acgtccacgt cccccacccg gagtatggcc    420
238 ccaggggcag tacacttacc ccagccagtg tccacacgat cccaacacac gcagccaagt    480
240 ccagaaccca gcactgctcc aagcacctcc ttcctgctcc caatgggccc cagccccca    540
242 gctgaaggga gcactggcga cttcgctctt ccagttggac tgattgtggg tgtgacagcc    600
244 ttgggtctac taataatagg agtggtgaac tgtgtcatca tgacccaggt gaaaaagaag    660
246 cccttgtgcc tgcagagaga agccaaggtg cctcacttgc ctgccgataa ggcccggggt    720
248 acacagggcc ccgagcagca gcacctgctg atcacagcgc cgagctccag cagcagctcc    780
250 ctggagagct cggccagtgc gttggacaga agggcgccca ctcggaacca gccacaggca    840
252 ccaggcgtgg aggccagtgg ggccggggag gcccgggcca gcaccgggag ctcagcagat    900
254 tcttcccctg gtggccatgg gacccaggtc aatgtcacct gcatcgtgaa cgtctgtagc    960
256 agctctgacc acagctcaca gtgctcctcc caagccagct ccacaatggg agacacagat   1020
258 tccagcccct cggagtcccc gaaggacgag caggtcccct tctccaagga ggaatgtgcc   1080
260 tttcggtcac agctggagac gccagagacc ctgctgggga gcaccgaaga gaagcccctg   1140
262 ccccttggag tgcctgatgc tgggatgaag cccagttaac caggccggtg tgggctgtgt   1200
264 cgtagccaag gtggctgagc cctggcagga tgaccctgcg aaggggccct ggtccttcca   1260
266 ggcccccacc actaggactc tgaggctctt tctgggccaa gttcctctag tgccctccac   1320
268 agccgcagcc tccctctgac ctgcaggcca agagcagagg cagcgagttg tggaaagcct   1380
270 ctgctgccat ggcgtgtccc tctcggaagg ctggctgggc atggacgttc ggggcatgct   1440
272 ggggcaagtc cctgagtctc tgtgacctgc cccgcccagc tgcacctgcc agcctggctt   1500
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PATENT APPLICATION: US/08/444,791A TIME: 11:53:10

Input Set : A:\40451C.txt
Output Set: N:\CRF4\03222005\H444791A.raw

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agaggaggga tgctgcctga gtcacccatg aagacaggac agtgcttcag cctgaggctg 1680
agactgcggg atggtcctgg ggctctgtgc agggaggagg tggcagccct gtagggaacg 1740
gggtccttca agttagctca ggaggcttgg aaagcatcac ctcaggccag gtgcagtggc 1800
tcacgcctat gatcccagca ctttgggagg ctgaggcggg tggatcacct gaggttagga 1860
gttcgagacc agcctggcca acatggtaaa accccatctc tactaaaaat acagaaatta 1920
gccgggcgtg gtggcgggca cctatagtcc cagctactca gaagcctgag gctgggaaat 1980
cgtttgaacc cgggaagcgg aggttgcagg gagccgagat cacgccactg cactccagcc 2040
tgggcgacag agcgagagtc tgtctcaaaa gaaaaaaaaa aagcaccgcc tccaaatgct 2100
aacttgtcct tttgtaccat ggtgtgaaag tcagatgccc agagggccca ggcaggccac 2160
catattcagt gctgtggcct gggcaagata acgcacttct aactagaaat ctgccaattt 2220
tttaaaaaag taagtaccac tcaggccaac aagccaacga caaagccaaa ctctgccagc 2280
cacatccaac cccccacctg ccatttgcac cctccgcctt cactccggtg tgcctgcag 2339

<210> SEQ ID NO: 4
<211> LENGTH: 392
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 4

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1 5 10 15
Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
20 25 30
Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
35 40 45
Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
50 55 60
Arg Leu Cys Ala Pro Leu Pro Lys Cys Arg Pro Gly Phe Gly Val Ala
65 70 75 80
Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
85 90 95
Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
100 105 110
Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Arg Asp Ala
115 120 125
Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
130 135 140
His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Ser
145 150 155 160
Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
165 170 175
Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Phe Ala Leu Pro Val
180 185 190
Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile Gly Val
195 200 205
Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu Cys Leu
210 215 220
Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly
225 230 235 240

**RAW SEQUENCE LISTING** DATE: 03/22/2005
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Input Set : **A:\40451C.txt**
Output Set: **N:\CRF4\03222005\H444791A.raw**

```
370 Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser
371                 245                 250                 255
374 Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala
375             260                 265                 270
378 Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala
379         275                 280                 285
382 Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Ala Asp Ser Ser Pro Gly
383     290                 295                 300
386 Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser
387 305                 310                 315                 320
390 Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met
391                 325                 330                 335
394 Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val
395             340                 345                 350
398 Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro
399         355                 360                 365
402 Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val
403     370                 375                 380
406 Pro Asp Ala Gly Met Lys Pro Ser
407 385                 390
410 <210> SEQ ID NO: 5
411 <211> LENGTH: 28
412 <212> TYPE: PRT
413 <213> ORGANISM: Artificial sequence
415 <220> FEATURE:
416 <223> OTHER INFORMATION: Synthetic peptide
419 <220> FEATURE:
420 <221> NAME/KEY: misc_feature
421 <222> LOCATION: (25)..(25)
422 <223> OTHER INFORMATION: Xaa = unknown amino acid
424 <400> SEQUENCE: 5
426 Leu Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro
427 1               5                   10                  15
W--> 430 Gln Gly Lys Tyr Ile His Pro Glu Xaa Asn Ser Ile
431             20                  25
433 <210> SEQ ID NO: 6
434 <211> LENGTH: 15
435 <212> TYPE: PRT
436 <213> ORGANISM: Artificial sequence
438 <220> FEATURE:
439 <223> OTHER INFORMATION: Synthetic peptide
441 <400> SEQUENCE: 6
443 Ser Thr Pro Glu Lys Glu Gly Glu Leu Glu Gly Thr Thr Thr Lys
444 1               5                   10                  15
447 <210> SEQ ID NO: 7
448 <211> LENGTH: 18
449 <212> TYPE: PRT
450 <213> ORGANISM: Artificial sequence
452 <220> FEATURE:
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**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 03/22/2005
PATENT APPLICATION: **US/08/444,791A** TIME: 11:53:11

Input Set : **A:\40451C.txt**
Output Set: **N:\CRF4\03222005\H444791A.raw**

**Please Note:**
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:5; Xaa Pos. 25
Seq#:10; Xaa Pos. 8
Seq#:11; Xaa Pos. 2
Seq#:14; Xaa Pos. 9,10,13

**VERIFICATION SUMMARY** DATE: 03/22/2005
PATENT APPLICATION: **US/08/444,791A** TIME: 11:53:11

Input Set : **A:\40451C.txt**
Output Set: **N:\CRF4\03222005\H444791A.raw**

L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0